

Appendix A:

Synthetic Control Design Parameters: Exemplary PCR Components and Reaction Parameters

1. Components (25 μ l reaction)

dH ₂ O	14.5 μ l
10X PCR Buffer	2.5 μ l
MgCl ₂ (25mM)	2.5 μ l
dNTPs (2.0 mM)	2.5 μ l
Primers (10 μ M)	1.0 μ l
Amplitaq Gold 0.6U/ μ l)	1.0 μ l
Template (10 μ M mix)	1.0 μ l

2. Reaction Parameters

94°	10 minutes	
94°	45 seconds	5 Cycles
60°	45 seconds	
72°	45 seconds	
94°	45 seconds	25 Cycles
60°	45 seconds	
72°	45 seconds	
72°	5 minutes	
4°	∞	